

Datasheet for ABIN392319

anti-ALDH3A1 antibody (AA 254-284)**3** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	ALDH3A1
Binding Specificity:	AA 254-284
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDH3A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ALDH3A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 254-284 amino acids from the Central region of human ALDH3A1.
Clone:	RB16832
Isotype:	Ig Fraction
Predicted Reactivity:	B
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ALDH3A1
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Target Details

Alternative Name:	ALDH3A1 (ALDH3A1 Products)
Background:	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. ALDH3A1 forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. The enzyme is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea.
Molecular Weight:	50395
Gene ID:	218
NCBI Accession:	NP_000682 , NP_001128639 , NP_001128640
UniProt:	P30838

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

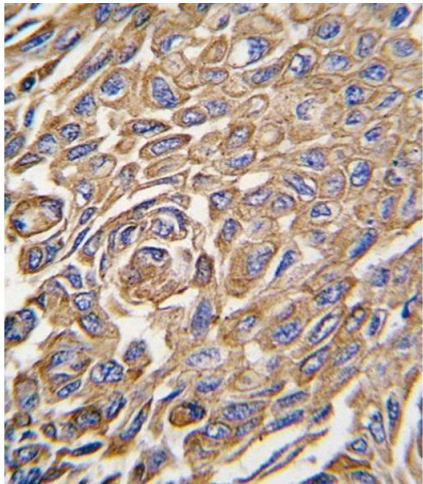
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:	Voulgaridou, Kiziridou, Mantso, Chlichlia, Galanis, Koukourakis, Franco, Panayiotidis, Pappa: " Aldehyde dehydrogenase 3A1 promotes multi-modality resistance and alters gene expression
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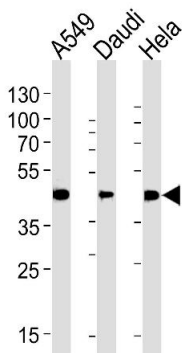
profile in human breast adenocarcinoma MCF-7 cells." in: **The international journal of biochemistry & cell biology**, Vol. 77, Issue Pt A, pp. 120-128, (2017) ([PubMed](#)).

Images



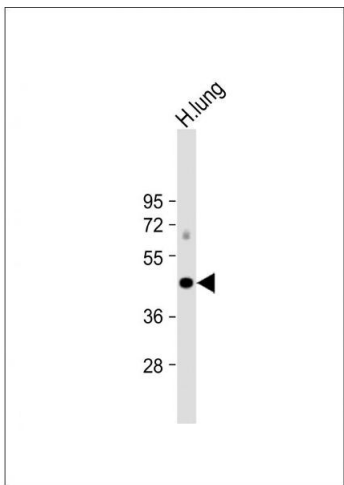
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with ALDH3A1 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. ALDH3A1 Antibody (Center) (ABIN392319 and ABIN2841970) western blot analysis in A549,Daudi,HeLa cell line lysates (35 µg/lane).This demonstrates the ALDH3A1 antibody detected the ALDH3A1 protein (arrow).



Western Blotting

Image 3. Anti-ALDH3A1 Antibody (Center) at 1:1000 dilution + human lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.